Amendments to the Claims

- 1-17: (Previously Canceled)
- 18: (Previously amended) A composition comprising a substrate comprising:
 - a) an array of electrodes, each comprising a binding ligand;
 - b) a plurality of colloids, each comprising:
 - i) a binding ligand partner; and
 - ii) an electron transfer moiety.
- 19: (Canceled)
- 20. (Previously amended) The composition of claim 18 wherein said plurality of colloids further comprise a self-assembled monolayer.
- 21. (Previously amended) The composition of claim 20 wherein said self-assembling monolayer comprises an alkyl chain.
- 22. (Previously amended) The composition of claim 18 wherein said substrate is a printed circuit board.
- 23. (Previously amended) The composition according to claim 18 wherein said electrodes are gold.
- 24. (Currently amended) The composition according to claim 18 wherein said [[ETM]] electron transfer moiety is a transition metal complex.
- 25. (Previously amended) The composition according to claim 24 wherein said transition metal complex is ferrocene.
- 26: (Withdrawn) The composition according to claim 18 wherein said ETM is an organic ETM.
- 27. (Previously amended) The composition according to claim 18 wherein said binding ligand is a first nucleic acid and said binding ligand partner is a second nucleic acid.
- 28-35: (Canceled)
- 36. (Currently amended) A composition comprising a substrate comprising:
 - a) an array of electrodes, each comprising a binding ligand;
 - b) a plurality of colloids, each comprising a binding ligand partner; and
 - c) an electron transfer moiety.
- 37. (Previously presented) The composition of claim 36 further comprising a detector.